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MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICE

Test Report
Field Density Test by Sand Replacement Method

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Wet Mix Macadam
Contractor	M/s KRIDL
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	bay
Material	Wet Mix Macadam
Sample No	2
Date	28-May-2018

Test Hole No	2
MDD	2.24
OMC in %	3.20
Bulk Density Ys	1.39
Weight of Sand In cone W1 (gm)	1195.00
Weight Of Wet soil From Hole (W2)	4328.00
Wet Sand +Cylinder Before Pouring (W3)gm	17000.00
Wet Sand +Cylinder After Pouring (W4) gm	13173.00
Wet Sand In Hole: W5 = W3 - W4- W1 (gm)	2632.00
Volume of Hole: V= W5/ Ys	1890.80
Bulk Density Yb= W2/V (gm/cc)	2.29
Moisture Meter Reading (%)	1.59
Moisture Content : w (From Graph In %)	3.31
Dry Density Yd = Yb/(1+W/100)	2.22
Field Compaction(%)	98.91

- Note:
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MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Field Density Test by Sand Replacement Method

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Wet Mix Macadam
Contractor	M/s KRIDL
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	bay
Material	Wet Mix Macadam
Sample No	3
Date	28-May-2018

Test Hole No	3
MDD	2.24
OMC in %	3.20
Bulk Density Ys	1.39
Weight of Sand In cone W1 (gm)	1195.00
Weight Of Wet soil From Hole (W2)	4430.00
Weight of Sand -Cylinder Before Pouring (W3)gm	17000.00
Weight of Sand -Cylinder After Pouring (W4) gm	13110.00
Weight of Sand in Hole: W5 = W3 - W4- W1 (gm)	2695.00
Volume of Hole: V= W5/ Ys	1936.06
Bulk Density Yb= W2/V (gm/cc)	2.29
Moisture Meter Reading (%)	1.56
Moisture Content : w (From Graph In %)	3.32
Dry Density Yd = Yb/(1+W/100)	2.21
Field Compaction(%)	98.87

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Test Report

Quality of Bitumen

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Project No.	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Material	Bituminous Macadam
Manufacturer	M/s KRIDL
Standard	IS : 73 - 1992 & Specification for Road & Bridge Works, MORT&H, Revision IV.
Grade	60 / 70
Plant	Hot Mix Plant
Sample	Bitumen
Lot No.	1
Date	3-Jun-2018

S.N.	Description	Test Results	Requirement as per
			IS:73 - 1992
01	Penetration at 25°C, 1 / 10 mm	65	60 - 70
02	Softening Point, (°C)	49	45 - 55
03	Specific Gravity	1.1	Min. 0.97
04	Ductility at 27°C, in cm	80	Min. 75
05	Flash Point, (°C)	183	Min. 175

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PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Rate of Spread of Tack Coat

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Location	At Site
Material	Bitumen
Sample No	1
Date	6-Jun-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m ²	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m ²	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.658	1.652	1.653
5	Weight of Prime coat/ Tack Coat (d = c-b)	kg	0.017	0.011	0.012
6	Rate of spread (d/a)	kg / m ²	0.425	0.275	0.300
7	Average	kg / m ²	0.333		
8	Specified Limit	kg / m ²	Not less than 0.25 kg / m ²		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.333 kg / m²

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PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Rate of Spread of Tack Coat

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mat. Type	Bituminous Macadam
Contractor	M/s KRIDL
Location	At Site
Material	Bitumen
Sample No	2
Date	6-Jun-2018

Sl. No.	Determination	Unit	Test No 1		
			Longitudinal Distribution		
1	Size of Plate (mxn)	m ²	0.2x0.2	0.2x0.2	0.2x0.2
2	Area of the Plate (a)	m ²	0.04	0.04	0.04
3	Initial weight of the empty Plate (b)	kg	1.641	1.641	1.641
4	Final weight of plate after application of Tack Coat (c)	kg	1.657	1.651	1.652
5	Weight of Prime coat / Tack Coat (d = c-b)	kg	0.016	0.01	0.011
6	Rate of spread (d/a)	kg / m ²	0.4	0.25	0.275
7	Average	kg / m ²	0.308		
8	Specified Limit	kg / m ²	Not less than 0.25 kg / m ²		

Results: Rate of Spread of Prime Coat / Tack Coat is: 0.308 kg / m²

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Test Report
Aggregate Impact Value

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Test Method	IS : 2386 (Part - 4) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Coarse Aggregate
Sample No	1
Date	5-Jun-2018

Sl. No.	Determination	Unit	Trails	
1	Weight of empty cylinder, w1	gm	960	960
2	Weight of container filled with Aggregate, w2	gm	1308	1304
3	Weight of the Aggregate before compaction, (w2 - w1) = w3	gm	348	344
4	Weight of the sample passing through 2.36 mm IS sieves after Impact, w4	gm	85	83
5	Weight of the sample retained on 2.36 mm IS sieve after Impact, w5	gm	263	261
6	Aggregate Impact Value (w4 / w3)x100	%	24.43	24.13
7	Specified Limit	%	27	

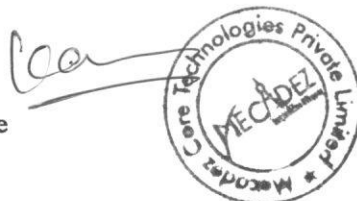
Results: Average Aggregate Impact Value: **24.28 %**

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Test Report Aggregate Particle Shape

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Hot Mix Plant
Material	Coarse Aggregates
Sample No	1
Date	5-Jun-2018

I.S. Sieves Size		Weight of Retained Sample on Each Sieve (minimum 200 Pieces) (gm)	Flakiness Index		Elongation Index	
Passing through IS Sieves (mm)	Retained on IS Sieves (mm)		Thickness Gauge	Weight of Aggregates in each fraction passing on thickness gauges (gm)	Length Gauge	Weight of Aggregates in Fraction retained on length gauges (gm)
63	50	0	33.9	0	-	0
50	40	0	27	0	81	0
40	25	0	19.5	0	58.5	0
31.5	25	0	16.95	0	-	0
25	20	1559	13.5	239	40.5	257
20	16	1443	10.8	122	32.4	149
16	12.5	951	8.55	146	25.6	153
12.5	10	467	6.75	69	20.2	75
10	6.3	235	4.89	57	14.7	64
SW		4655	SWf	633	SWe	698

Flakiness Index 13.60 %

Elongation Index 14.99 %

Combined Flakiness and Elongation Indices : 28.59 %

Comments: Maximum allowable Combined Flakiness and Elongation Indices for DBM is 35%.

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Test Report
Aggregate Stripping Value

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Test Method	IS : 6241 - 1971 & Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Hot Mix Plant
Material	Coarse Aggregates / Bitumen
Sample No	1
Date	5-Jun-2018
Type of Aggregate	Coarse Aggregate
Type of Binder	60 / 70 Grade
Percentage of Binder Used	5% by weight
Total weight of Aggregate	200 gms
Total weight of Binder	10 gms
Temperature of water bath	40°C

Observation Number	Stripping Percentage	Average Percentage	Average Retained Coating (%)
1	3.6	3.53	96.47
2	3.5		
3	3.5		

Comments: Minimum allowable Aggregate Stripping Value for Dense Bituminous Macadam is 95%

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PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report

Specific Gravity and Water Absorption

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Test Method	IS: 2386 (Part - 111) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Hot Mix Plant
Material	Coarse Aggregates
Sample No	1
Date	5-Jun-2018

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of Empty Basket Immersed in Water	W_1 g	761	763	
2	water	W_2 g	2024	2022	
3	Weight of Saturated Aggregate in water	$W_s = W_2 - W_1$	1263	1259	
4	Weight of saturated surface dry aggregate in Air	W_3 g	2059	2047	
5	Aggregate	$W_3 - W_s$	796	788	
6	Weight of Oven dried Aggregate	W_4 g	2020	2018	
7	Specific Gravity	$W_4 / (W_3 - W_s)$	2.54	2.56	2.55
8	Apparent Specific Gravity	$W_4 / (W_4 - W_s)$	2.67	2.66	2.66
9	Water Absorption	$(W_4 - W_3) * 100 / W_4$	1.93	1.44	1.69

Comments: Maximum allowable Aggregate Water Absorption value for Dense bituminous Macadam is 2.0%.

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PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Aggregate Gradation

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Hot Mix Plant
Material	Coarse Aggregates
Sample No	1
Date	5-Jun-2018

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	37.5	0	0	0	100	100	Gradation satisfies the MORT&H Specification for Dense graded bituminous macadam
2	26.5	174	4.35	4.35	95.65	90-100	
3	19	855	21.38	25.73	74.28	71-95	
4	13.2	731	18.28	44.00	56.00	56-80	
5	4.75	668	16.70	60.70	39.30	38-54	
6	2.36	356	8.90	69.60	30.40	28-42	
7	0.3	752	18.80	88.40	11.60	(7-21)	
8	0.075	264	6.60	95.00	5.00	(2-8)	

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Test Report
Stability of Mix

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Test Method	Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Bay
Sample No	1
Date	6-Jun-2018

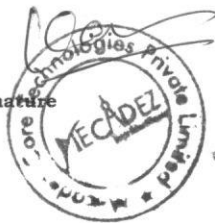
Sl. No.	Description	Unit	Test 1	Requirements as per MORT&H
1	Marshal Stability	KN	9.74	9 KN (min)
2	Marshal Flow	mm	3.4	2 - 5 mm
3	Percent of Air Voids in mix	%	4.4	3-5..
4	Percent of Voids in Mineral Aggregates filled with Bitumen	%	73	65 - 75 %
5	Density	g/cc	2.23	2.22 g/cc

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MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Stability of Mix

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Test Method	Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Bay
Sample No	2
Date	6-Jun-2018

Sl. No.	Description	Unit	Test 1	Requirements as per MORT&H
1	Marshal Stability	KN	9.51	9 KN (min)
2	Marshal Flow	mm	3.62	2 - 5 mm
3	Percent of Air Voids in mix	%	4.51	3-5
4	Percent of Voids in Mineral Aggregates filled with Bitumen	%	72.1	65 - 75 %
5	Density	g/cc	2.2	2.22 g/cc

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MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Binder Content and Mix Gradation

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Test Method	Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Bay
Sample No	1
Date	6-Jun-2018

	Description	Unit	Computation	Test Result
1	Weight of Empty bowl before Extraction (E)	gm	Eb	1080
2	Weight of bowl + Sample before extraction (w_b)	gm	w_{sb}	1770
3	Weight of Sample taken for the test (S_b)	gm	$S_b = w_{sb} - Eb$	690
4	Weight of bowl + Sample after extraction (w_a)	gm	w_{sa}	1746
5	Weight of Sample after extraction (i.e. washed aggregates) (S_a)	gm	$S_a = w_{sa} - Eb$	666
6	Weight of Filter paper before extraction (F_b)	gm	F_b	2
7	Weight of Filter paper after extraction (F_a)	gm	F_a	4
8	Weight of filler on filter paper (F_d)	gm	$F_d = F_b - F_a$	2
9	Weight of Bitumen without considering Filter paper (W_b)	gm	W_b	24
10	Weight of the Bitumen with considering Filter paper (W_a)	gm	$W_a = w_b - F_d$	22
11	Percentage of the Bitumen (i.e. Binder Content) (%)	(%)	$W_a / S_b \times 100$	3.19

S. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	37.50	0.00	0.00	0.00	100.00	100.00	Gradation satisfies the MORT&H Specification for Dense graded bituminous macadam
2	26.50	174.00	4.35	4.35	95.65	90-100	
3	19.00	855.00	21.38	25.73	74.28	71-95	
4	13.20	731.00	18.28	44.00	56.00	56-80	
5	4.75	668.00	16.70	60.70	39.30	38-54	
6	2.36	356.00	8.90	69.60	30.40	28-42	
7	0.30	752.00	18.80	88.40	11.60	(7-21)	
8	0.08	264.00	6.60	95.00	5.00	(2-8)	

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Test Report
Binder Content and Mix Gradation

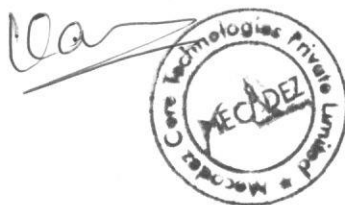
Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Macadam
Contractor	M/s KRIDL
Test Method	Specification for Road & Bridge Works, MORT&H, Revision V.
Location	Bay
Sample No	2
Date	6-Jun-2018

	Description	Unit	Computation	Test Result
1	Weight of Empty bowl before Extraction (E)	gm	E _b	1080
2	Weight of bowl + Sample before extraction (w _b)	gm	w _{sb}	1775
3	Weight of Sample taken for the test (S _b)	gm	S _b = w _{sb} - E _b	695
4	Weight of bowl + Sample after extraction (w _a)	gm	w _{sa}	1750
5	Weight of Sample after extraction (i.e. washed aggregates) (S _a)	gm	S _a = w _{sa} - E _b	670
6	Weight of Filter paper before extraction (F _b)	gm	F _b	2
7	Weight of Filter paper after extraction (F _a)	gm	F _a	4
8	Weight of filler on filter paper (F _d)	gm	F _d = F _b - F _a	2
9	Weight of Bitumen without considering Filter paper (W _b)	gm	W _b	25
10	Weight of the Bitumen with considering Filter paper (W _a)	gm	W _a = w _b - F _d	23
11	Percentage of the Bitumen (i.e. Binder Content) (% _b)	(%)	W _a / S _b X 100	3.31

	LS. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	37.50	0.00	0.00	0.00	100.00	100.00	Gradation satisfies the MORT&H Specification for Dense graded bituminous macadam
2	26.50	174.00	4.35	4.35	95.65	90-100	
3	19.00	855.00	21.38	25.73	74.28	71-95	
4	13.20	731.00	18.28	44.00	56.00	56-80	
5	4.75	668.00	16.70	60.70	39.30	38-54	
6	2.36	356.00	8.90	69.60	30.40	28-42	
7	0.30	752.00	18.80	88.40	11.60	(7-21)	
8	0.08	264.00	6.60	95.00	5.00	(2-8)	

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PROJECT MANAGEMENT & CONSULTANCY SERVICE

Test Report
Quality of Bitumen

Project Name	Improvements to roads and drains at Prakruthi Layout in Ward No.05
Client	Executive Engineer, Project Division Yalahanka
Job No	MCTPL/BBMP/Project-YNK/QR/2017-2018/02
Mix Type	Bituminous Concrete (BC)
Contractor	M/s KRIDL
Test Method	IS : 73 - 1992 & Specification for Road & Bridge Works, MORT&H,
Grade of Bitumen	60 / 70
Location	Hot Mix Plant
Material	Bitumen
Sample No	1
Date	2-Jun-2018

Sl. No.	Description	Test Results	Requirement as per IS:73 - 1992
1	Penetration at 25 ⁰ C , 1 / 10 mm	64	60 - 70
2	Softening Point, (⁰ C)	55	45 - 55
3	Specific Gravity	1.1	Min. 0.97
4	Ductility at 27 ⁰ C, in cm	83	Min. 75
5	Flash Point, (⁰ C)	187	Min. 175

Note:

- The results indicated above are based on the tests carried out on the sample at site.
- The results relate only to the items tested.
- This test report should not be reproduced except in full, without written approval of this laboratory.
- Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited

Authorised Signature

